

**Integration of the Transformational Leadership Model (TLM) into a school organization through the utilization of recycling and reuse of materials.
A Case study, "The sustainable development ... is going to school".**

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Keywords : Transformative Leadership Model, Recycling, Reuse, Education for Worth Living Development

Skydra s High School.

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The present project has been achieved through the use of innovative methods and reusable items for recycling purposes. It will be beneficial for the needs of Skydra High School in the municipality of the same place.

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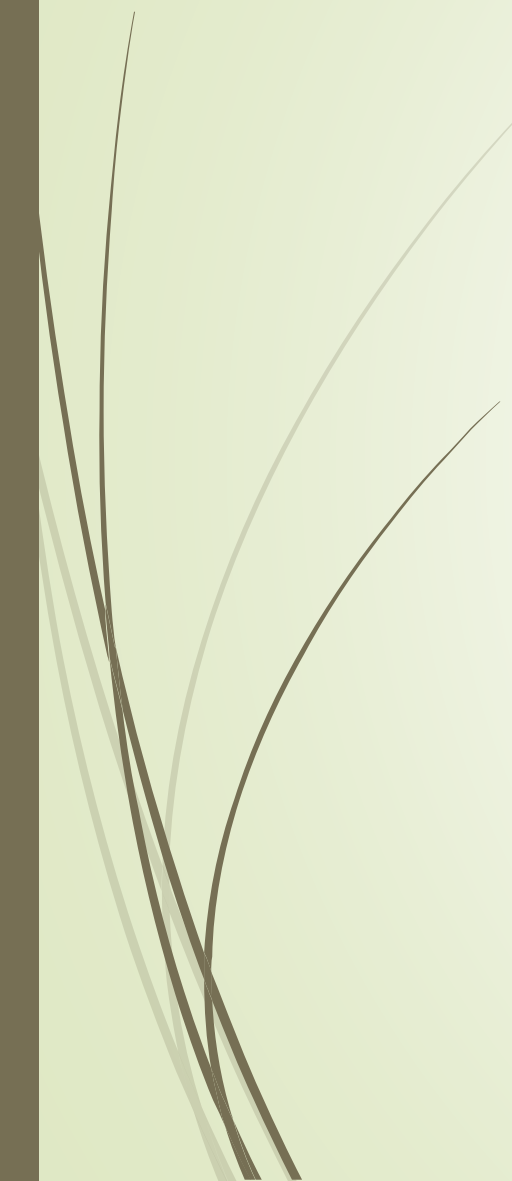
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The main axes of development of the transformative leadership model is based on innovation and leadership to achieve a profound change, both for the model and for the people that are members of this school community. The most important factor is not the outcome but research, interaction and collaboration among the partners.


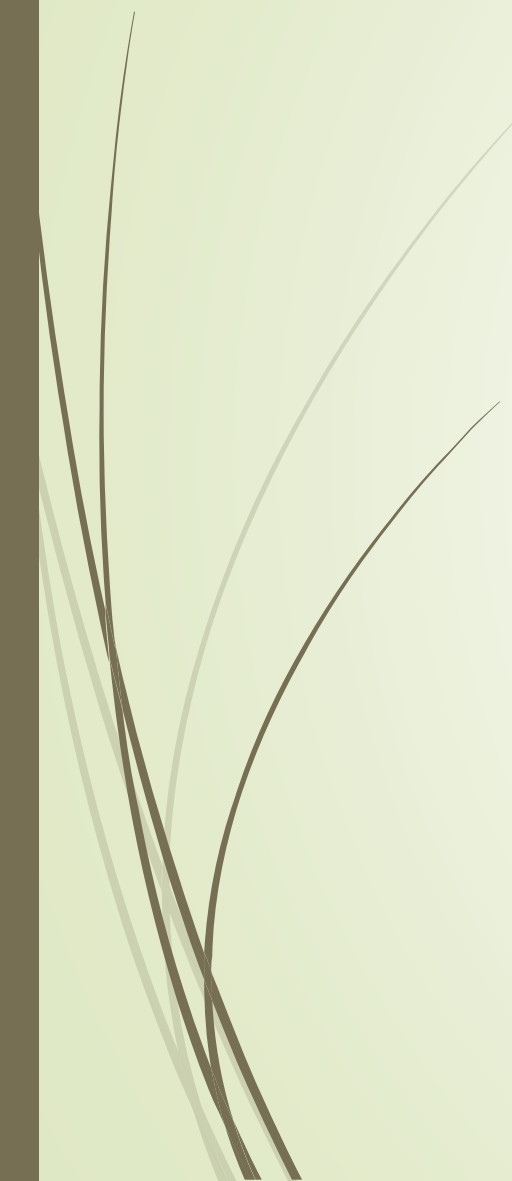
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- **The administration of a Greek High School is a demanding and pressing one.**
 - **It includes administrative and bureaucratic issues for the handling of functional matters. The management is extremely hectic, because of the pandemic too. It is crucial to be effective in the running of a post modern cooperative school.**



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- The term "leadership" means the influential actions that take place in an institution in order to achieve the desired goals.
 - This management model aims at a common vision among students, teachers and whoever is involved in it. Consequently it is linked with sustainable development that leads to environmental literacy and awareness of it.

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- **“Environmental education” as “Worth Living education” is the awareness and the functionality of the natural environment. That means that the life and the survival of the planet depends on it.**
 - **Nowadays Environmental education is at the forefront in helping to face difficulties that concern even planetary problems.**

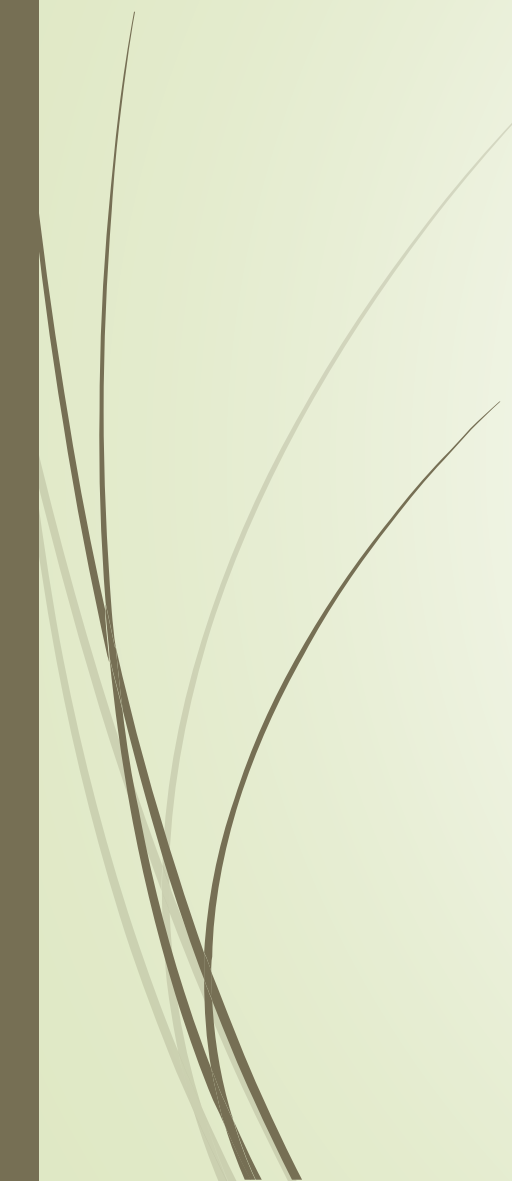
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- In fact this unique study aims at environmental literacy of the students of Skydra High School. This will be achieved through its equipment. That is offices, libraries, bulletin boards, sofas, games as ping pong, e.t.c..**
 - All these have been made by devalued, useless materials of the school. This accomplishment will be enriched by the participation of the students in the manufacturing of new items using the old ones and use them as experimental devices.**
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Photos 1, 2, 3. Tables-libraries made of useless desks and chairs & a free lending library with reusable books from donations

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Photo 4. A ping pong Table which made of useless desks

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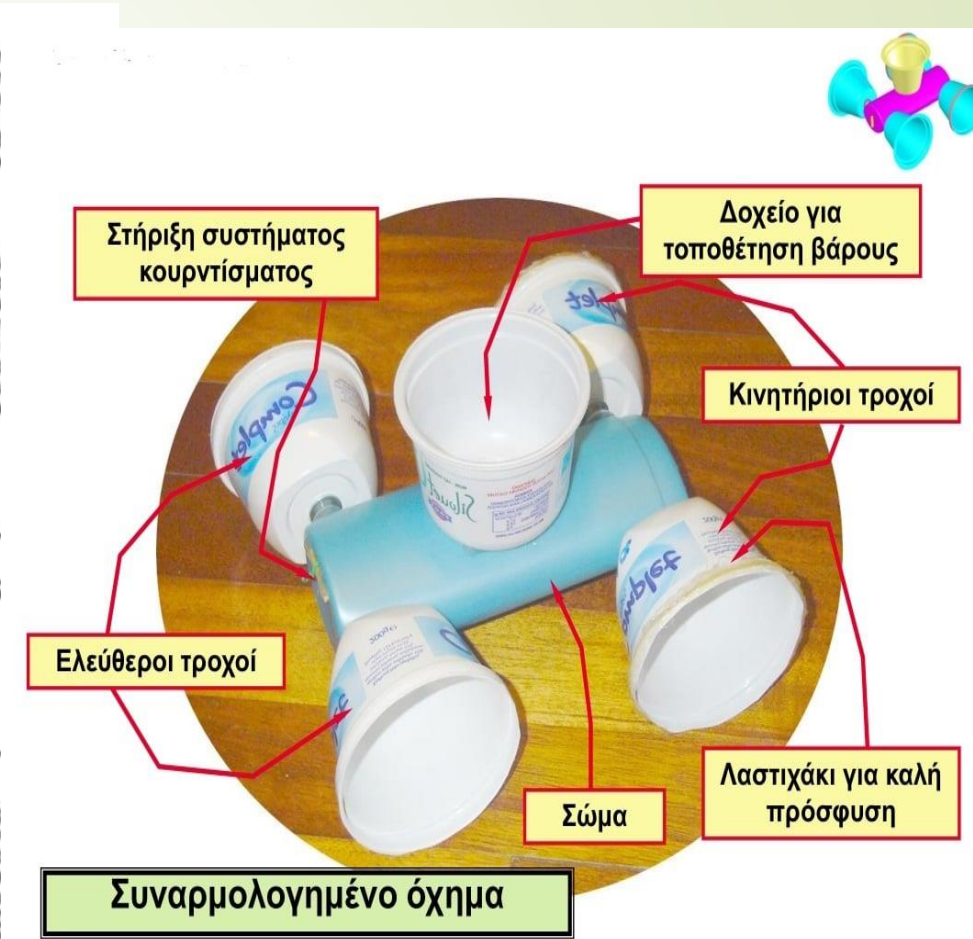
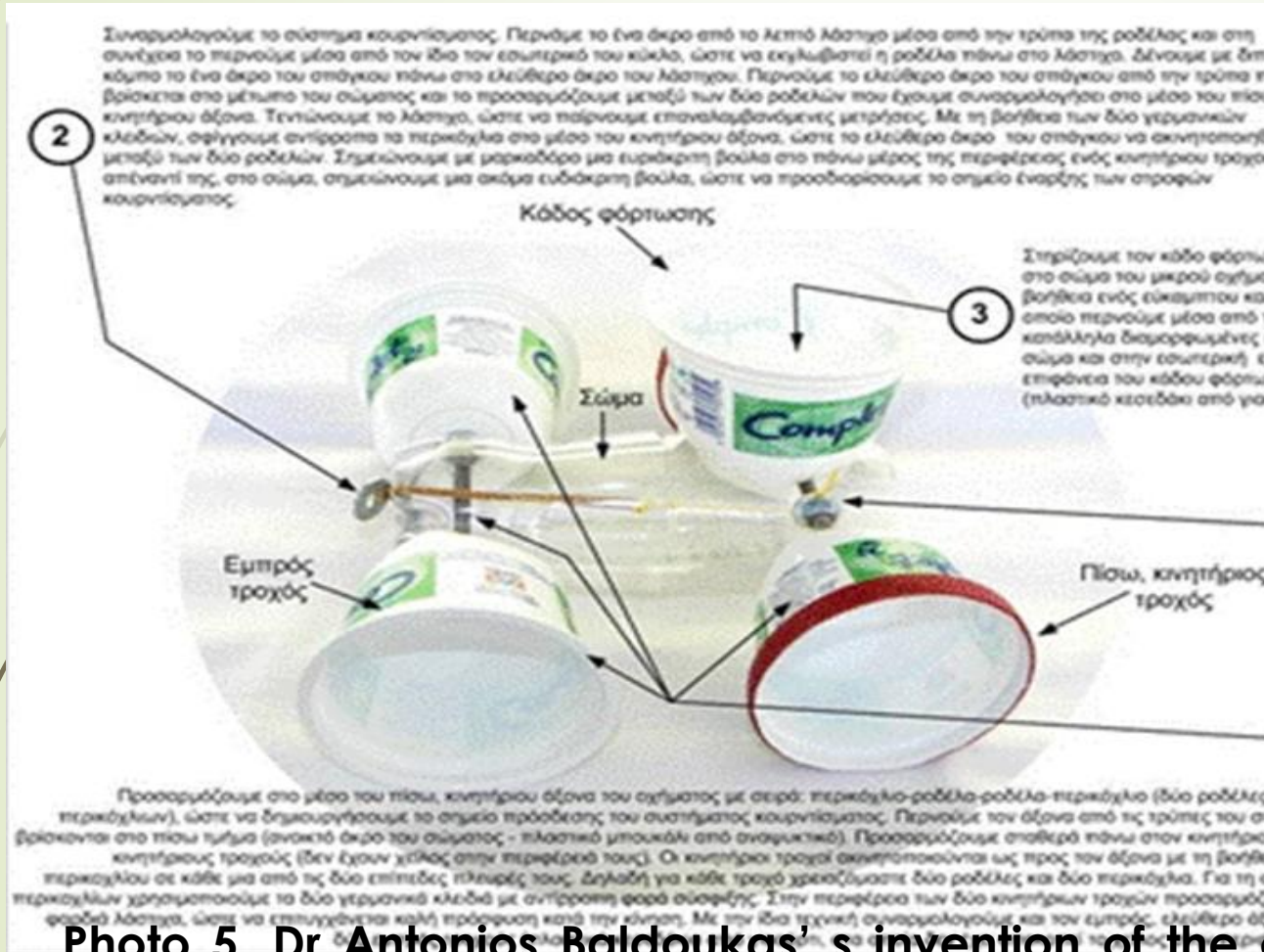


Photo 5. Dr Antonios Baldoukas' s invention of the clockwork car, which is constructed by students of Skydra High school, used during their courses.

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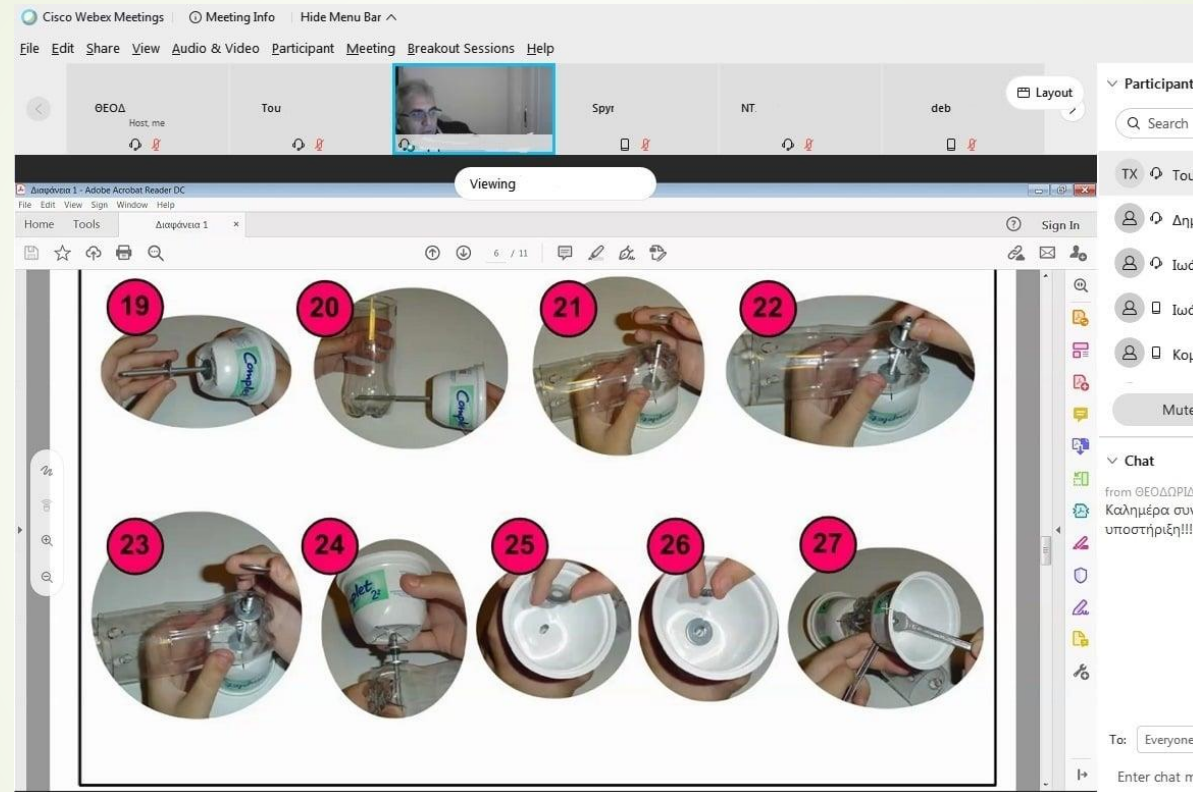


Photo 6. The stages of manufacture of a clockwork car-experimental device from useless materials.

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The screenshot shows a Zoom meeting interface with a presentation slide. The slide title is "Τεχνο-Ανακύκλωση" (Tech-Recycling) and the subtitle is "Πειραματισμός με ανακυκλώσιμα υλικά" (Experimentation with recyclable materials). The slide content includes:

- Στόχος** (Objective): To experimentally determine the relationship between the angular velocity of the spring and the distance and the mass of the load.
- Πειραματική Διαδικασία** (Experimental Procedure): A 9-step process for setting up and conducting the experiment.
- Πίνακας Πειραματικών Μετρήσεων** (Table of Experimental Measurements): Two tables for recording data.
- Απόσταση που διανύθηκε (cm)** (Distance traveled in cm): A grid for recording distance.
- Στροφές κωρνήτισματος** (Revolutions of the spring): A label for the data grid.

Πίνακας Πειραματικών Μετρήσεων

Α. Χωρίς πρόσθετη μάζα					
α/α	Στροφές κωρνήτισμας	Απόσταση που διανύθηκε (cm) 1 ^ο πείραμα	Απόσταση που διανύθηκε (cm) 2 ^ο πείραμα	Απόσταση που διανύθηκε (cm) 3 ^ο πείραμα	Μέσος όρος απόστασης που διανύθηκε (cm)
Set A.1α	3				
Set A.1β	5				
Set A.1γ	7				

Β. Με πρόσθετη μάζα φόρτισης γραμμαρίων					
α/α	Στροφές κωρνήτισμας	Απόσταση που διανύθηκε (cm) 1 ^ο πείραμα	Απόσταση που διανύθηκε (cm) 2 ^ο πείραμα	Απόσταση που διανύθηκε (cm) 3 ^ο πείραμα	Μέσος όρος απόστασης που διανύθηκε (cm)
Set B.1α	3				
Set B.1β	5				
Set B.1γ	7				

Photo 7. The experimental measurements with clockwork car-experimental device, in order to study the magnitude of the speed

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Photo 8. A wheelchair purchased from the sale of plastic water caps.



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Photo 9. Reuse of old fabrics in the art course

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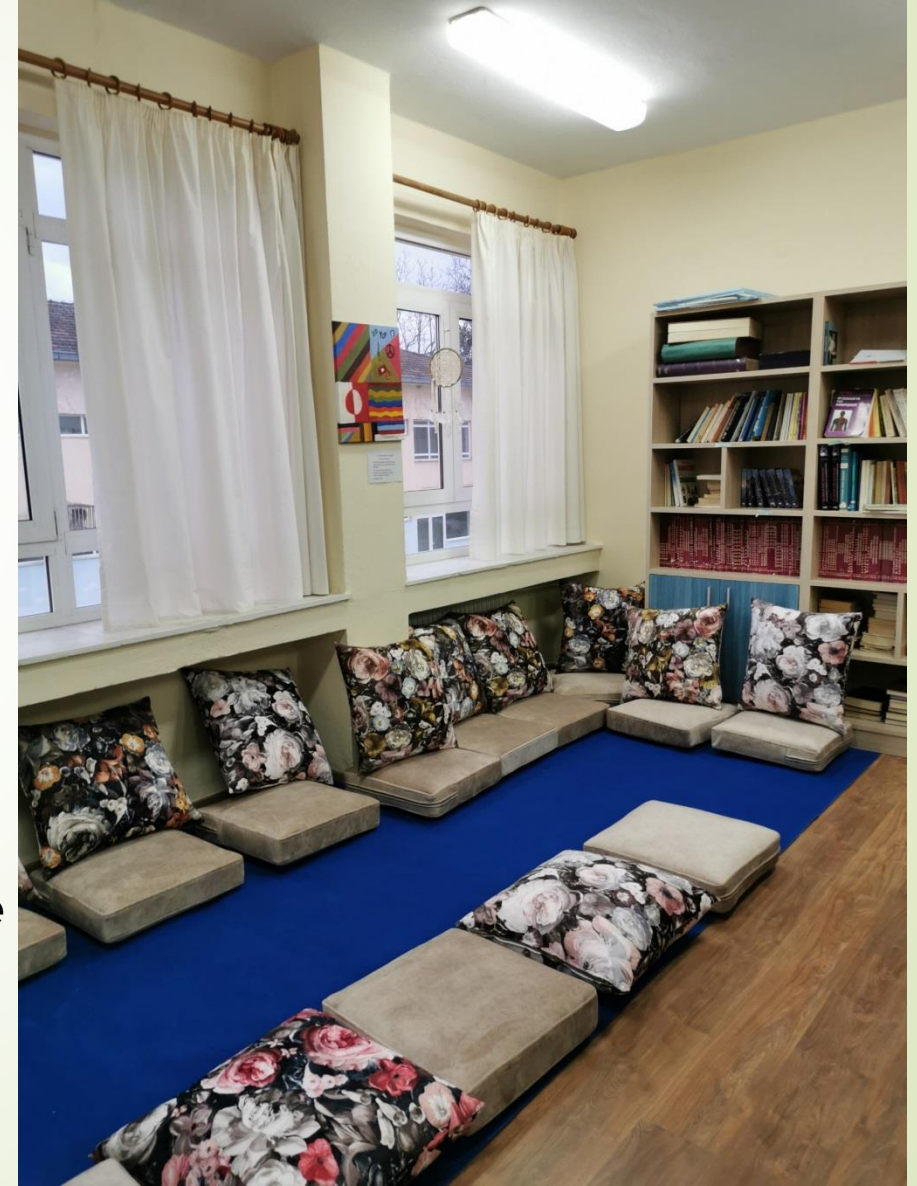
Photo 10. Reuse of a metal mesh from the school yard as a space for posting student announcements



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**Photo 11. Reuse of old objects (pillows, carpet) to become
a Philanagnosia Workshop-Reading Room**



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Photo 12. Reconstruction and reuse of old objects (frames, paintings) to make the School Gallery.

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To: PARENTS & STUDENTS OF SKYDRA HIGH SCHOOL

Hey, psit, we're talking to you. We are YOUR SCHOOL BOOKS.

Our beloved families it's time to say goodbye. In the hope that we have achieved our purpose –to solve your questions, to create new ones for you, to help you get deeper into the paths and open paths of the sciences—we now say goodbye to you.

Please do not mislead us, do not put us torn in the trash. Our dream is to keep us in the libraries of your homes. If this is not possible, then don't forget tomorrow to take us with you, our pals –one last walk in the schoolyard all together-.

There will be waiting for us a vehicle that will lead us to RECYCLING, so that after processing we will be born again and reach again in student hands, that we love so much!

Don't forget!... tomorrow 15.06.2022 to go to school together.

Your best friends

YOUR SCHOOL BOOKS

Photo 13. Letter of School Books Recycling Program

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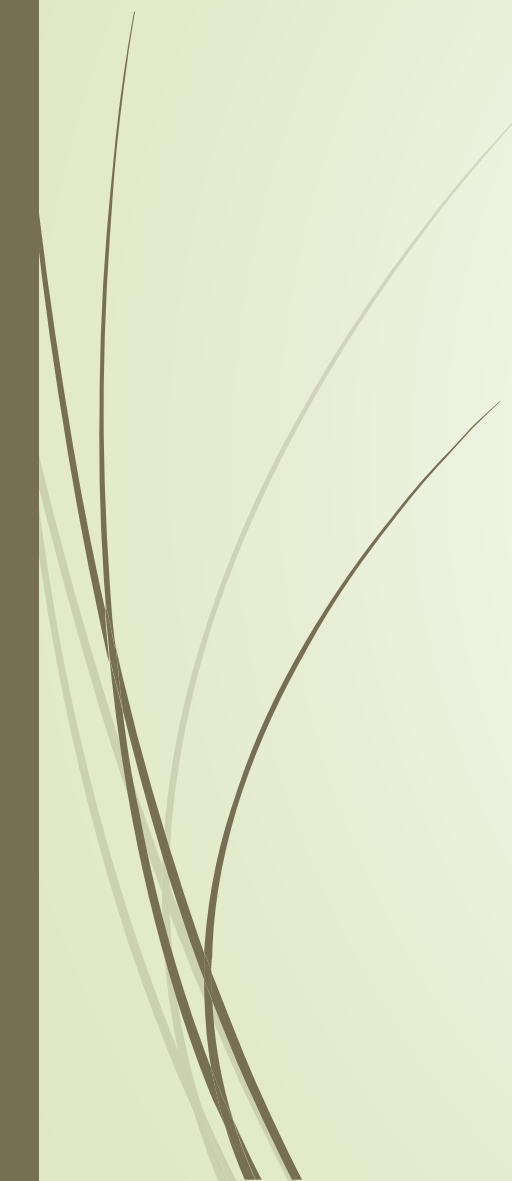
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- **The utilization of recycling and reuse, under the umbrella of AGENDA 2030, is an experiential object to study in order to seek/search the contribution of TLM to the environmental literacy and sensitization of the students of this particular school.**
- **Its role is a pivotal one to the direction of managing the contemporary reality and problematic literacy of the environment. It leads to the handling of the current situation in terms of Worth Living Development. Therefore its importance depends on each transformative effort to change the school culture.**



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- **In the identified need to change the way we perceive environmental reality, new interpretative codes are incorporated, regarding concepts, functions, values, behaviors and priorities of society in a unified view of the world, through the environment and ecology.**
 - **The focus of this research concerns the processes of application and investigation, so that finally a new environmental reality can be structured, accompanied by a new communication proposal, through environmental literacy and awareness raising of young people aged from 12 to 15 (High School of Skydra).**
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- These principles are finally summarized in the active and equal involvement of the trainees, the possibility of developing self-motivation, the prevalence of a radical educational philosophy in the management of training time, the absence of coercion as opposed to the possibility of taking personal initiative, the ability to choose leading to differentiated learning, the exercise in decision-making.
- In conclusion, it is proposed to expand and implement the above environmentally friendly model of utilization of recycling and reuse a friendly environment in Greek school in an experiential, utilitarian and functional way. Certainly, before and during the process of its implementation, the operation of the TLM in the school unit will contribute greatly to its effectiveness.



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...I have a dream,

... where young and old people, united with beautiful thoughts, will protect with more knowledge plants and animals, birds and trees, soil, air and sky, for them and for those who follow.

Now my friend, you and I, we should not waste our time at all.

Tomorrow is already rising!

WHITE BIBLE "GREECE IN 2040", 2021

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Have a "cool" good afternoon !!!
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Have a "cool" good afternoon !!!



Photo 14 . The High School of Skydra. A provincial frontier school whose community struggles to reduce its carbon footprint.